Toward Vector Spaces

Brown clusters are nice, but limiting:

- Arbitrary cut-off point $\rightarrow$ two words may be assigned different classes arbitrarily because of our chosen cutoff

- Definition of "similarity" is limited to only bigrams of classes[3]

- Completely misses lots of **regularity** that's present in language

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[3]There *are* adaptations of Brown clustering that move past this, but what we'll see today is still even better.